

## Product datasheet for **SC119948**

### CHM (NM\_000390) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHM (NM_000390) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHM
Synonyms:	DXS540; GGTA; HSD-32; REP-1; TCD
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC119948 sequence for NM\_000390 edited (data generated by NextGen Sequencing)

```
ATGGCGGATACTCTCCCTTCGGAGTTTGTATGTGATCGTAATAGGGACGGGTTTGCCTGAA
TCCATCATTGCAGCTGCATGTTCAAGAAGTGGCCGGAGAGTTCTGCATGTTGATTCAAGA
AGCTACTATGGAGGAACTGGCCAGTTTTAGCTTTTCAGGACTATTGCCTGGCTAAAG
GAATACCAGGAAAACAGTGACATTGTAAGTGACAGTCCAGTGTGGCAAGACCAGATCCTT
GAAAAAGAAAGCCATTGCTCTTAGCAGGAAGGACAAAACATTCAACATGTGGAAGTA
TTTTGTTATGCCAGTCAGGATTTGCATGAAGATGTCGAAGAAGCTGGTGCCTGCAGAAA
AATCATGCTCTTGTGACATCTGCAAACTCCACAGAAGCTGCAGATTCTGCCTTCCTGCCT
ACGGAGGATGAGTCATTAAGCACTATGAGCTGTGAAATGCTCACAGAACAAAACCTCAAGC
AGCGATCCAGAGAATGCGCTAGAAGTAAATGGTGTGAAAGTGCAGGGGAAAAAGAAAAC
CATTGTGATGATAAAAACCTGTGTGCCATCAACTTCAGCAGAAGACATGAGTGAATATGTG
CCTATAGCAGAAGATACCACAGAGCAACCAAGAAAAACAGAATTACTTACTCACAAATT
ATTAAGAAGGCAGGAGATTTAATATTGATTTAGTATCAAAGCTGCTGTATTCTCGAGGA
TACTAATTGATCTTCTAATCAAATCTAATGTTAGTTCGATATGCAGAGTTTAAAAATATT
ACCAGGATTCCTGCATTTTCGAGAAGGACAGTGGAAACAGGTTCCGTGTTCCAGAGCAGAT
GTCTTTAATAGCAAACTTACTATGGTAGAAAAGCGAATGCTAATGAAATTTCTTACA
TTTTGTATGGAATATGAGAAATATCCTGATGAATATAAAGGATATGAAGAGATCACATTT
TATGAATATTTAAAGACTCAAAAATTAACCCCAACCTCCAATATATTGTCATGCATTCA
ATTGCAATGACATCAGAGACAGCCAGCAGCACCATAGATGGTCTCAAAGTACCAAAAAC
TTCTTCACTGTCTTGGGCGGTATGGCAACACTCCATTTTTGTTTCCTTTATATGGCCAA
GGAGAACTCCCCAGTGTCTGCAGGATGTGTGCTGTGTTGGTGAATTTATTGTCTT
CGCCATTCAGTACAGTGCCTTGTAGTGGACAAAGAATCCAGAAAATGTAAGCAATTATA
GATCAGTTTGGTCAGAGAATAATCTCTGAGCATTTCCTCGTGGAGGACAGTTACTTTCTT
GAGAACATGTGCTCACGTGTGCAATACAGGCAGATCTCCAGGGCAGTGTGATTACAGAT
AGATCTGTCTAAAAACAGATTCAGATCAACAGATTTCCATTTTGACAGTGCCAGCAGAG
GAACCAGGAACCTTTGCTGTTCCGGTCAATTGAGTTATGTTCTTCAACGATGACATGCATG
AAAGGCACCTATTTGGTTCATTTGACTTGCACATCTTCTAAAACAGCAAGAGAAGATTTA
GAATCAGTTGTGCAGAAATGTTTGTCCATATACTGAAATGGAGATAGAAAATGAACAA
GTAGAAAAGCCAAGAATTCTGTGGGCTCTTACTTCAATATGAGAGATTCGTCAGACATC
AGCAGGAGCTGTATAATGATTTACCATCCAACGTTTATGTCTGCTCTGGCCAGATTGT
GGTTTAGGAAATGATAATGCAGTCAAACAGGCTGAAACACTTTTCCAGGAAATCTGCCCC
AATGAAGATTTCTGTCCCTCCACAAATCCTGAAGACATTATCCTTGATGGAGACAGT
TTACAGCCAGAGGCTTCAGAATCCAGTGCCATACCAGAGGCTAACTCGGAGACTTTCAAG
GAAAGCACAAACCTTGAAACCTAGAGGAGTCTCTGAATAA
```

Clone variation with respect to NM\_000390.2

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000390 unedited  TACTAATTTGTNAATACGCACTCTCTATAGGNCCGGCCGCGCAATTCGGCACGAGGTCA  AGATGGCGGATACTCTCCCTTCGGAGTTTGATGTGATCGTAATAGGGACGGGTTTGCCTG  AATCCATCATTGCAGCTGCATGTTCAAGAAGTGGCCGGAGAGTTCTGCATGTTGATTCAA  GAAGCTACTATGGAGGAACTGGCCAGTTTTAGCTTTTCAGGACTATTGCCTGGCTAA  AGGAATACCAGGAAAACAGTGACATTGTAAGTGACAGTCCAGTGTGGCAAGACCAGATCC  TTGAAAAATGAAGAAGCCATTGCTCTTAGCAGGAAGGACAAAATTTCAACATGTGGAAG  TATTTTGTATGCCAGTCAGGATTTGCATGAAGATGTCGAAGAAGCTGGTGCCTGCAGA  AAAATCATGCTCTGTGACATCTGCAAACTCCACAGAAGCTGCAGATTCTGCCTTCTGC  CTACGGAGGATGAGTCATTAAGCACTATGAGCTGTGAAATGCTCACAGAACAAAATCCAA  GCACGGATCCAGAGAATGCGCTAGAAGTAAATGGTGTGAAAGTGACAGGGGAAAAAGATA  ACCATTGTGATGATAAACTTGTGTGCCATCAACTTCAGCAGAAGACATGAGTGAATG  TGCCTATAGCAGAAGATACCACAGAGCACCCAAAGAAAACCAGAATTACTTACTCACAAA  ATATTAAGAAGGCAGGAGATTTAATATTGATTTGTATCAAAGCTGCTGTATTCTCGAAG  ATTACCTAATGATCTTCTAATCAAACCTATGGTAGTCGATATGCAGAGTTTAAAATATA  CCAAGATCTTTGCATTTGAAAAGAACGATTGAACAAGTCCCGCTTCCAGAGCAGATGC  TTTTATAGCAACCACTTACTATGCAGGAAACCGAAGCTAATGAAATTT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000390 unedited  GTCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTGAGACAGAGTCTTG  CTCTGTCAACCCAGCTGGAGTGCAGTGGCAAAATCTTGGCTCACTGCAACCTCCGCCTCC  CTGGTTCAAGTGAGTCTGCTACCTCATCTTCAAAGTAGCTGGGATTACAGGTGCCACCA  TAACACCCAGCTAAAATTTGTATTTTGTAGTAGACAGGGTTTCGCCATGTTGGCCAGG  CTGGTCTCGAACTCCTGACCTCAAGTGATCTACCCACCTCAGCTTCCCAAAGTGCTGGGA  TTACAGGCAGCCCTAACGTTTTTATGTAGTGTATATTAGGGCTTACCAACTGTCATACAC  AATTTGGAGTCTTGGTGGTGCAGGTTTACCTACCAGAAAAGGAATAAAAACAATTTATA  GAGTGTTCCTTAGTAATTTTCAAACCACAATTCTACTTGTACTATTTTACTGGT  CTGTAAGACTATAAAATACTACTTTAAAAAAGAAATTTTCATTTAAAAAGCTTAATGCAA  TAAAAACTGTGATCTATTTTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  GTGAGACTTTTGGAGATTCATCAAGTCAATGGGAAAATTTTAAAAACAATTTTCTTCTGCA  AACCGATTCTAAACATGGCATTGCTTTCATAACCACTTCTCATATAGTAAGCATAG  TAATACTATTTCCACTTTATATATGGAGAAACGTANGCTCAGAAGTTAAACAATTTACCA  CATATCATCAGTACGACAGCCAGAATTAATTAAGTCTGTAGACAATTAGCCTATACTCT  TAGTACTTGACAGACAGAATTTCAAACCCATGAGCCTATCACACCCTTCTTNCATTC  TTTCATTCCTCATTATTGACCTTNCAGTATGGAATAAATTAAC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000390
<b>Insert Size:</b>	3590 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_000390.1](#), [NP\\_000381.1](#)

**RefSeq Size:** 2115 bp

**RefSeq ORF:** 1962 bp

**Locus ID:** 1121

**UniProt ID:** [P24386](#)

**Cytogenetics:** Xq21.2

**Domains:** GDI

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes component A of the RAB geranylgeranyl transferase holoenzyme. In the dimeric holoenzyme, this subunit binds unprenylated Rab GTPases and then presents them to the catalytic Rab GGTase subunit for the geranylgeranyl transfer reaction. Rab GTPases need to be geranylgeranylated on either one or two cysteine residues in their C-terminus to localize to the correct intracellular membrane. Mutations in this gene are a cause of choroideremia; also known as tapetochoroidal dystrophy (TCD). This X-linked disease is characterized by progressive dystrophy of the choroid, retinal pigment epithelium and retina. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016]

Transcript Variant: This variant (1) represents the predominant transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.